



NEW SHEET

Figure 2

T7 promoter

AGATCTCGATCCCGCGAAATTAATACGACTCACTATAGGGGAATTGTGAGCGGATAACAATTCCCC

RBS

TCTAGAAATAATTTTGTTTAACTTTAAGAAGGAGATATACC

NdeI

ATGGGCAGCAGCCATCATCATCATCACAGCAGCGGCCTGGTGCCGCGCGGCAGCCATATGGGATCC

GG

M G S S H H H H H S S G L V P R G S H M -----

--

StuI SalI

AATTCAAAGGCCTACGTCGACTAGAGCCTGCAGTCTCGACCATCATCATCATCATTAATAAAAGGG

CG

----- *

SpeI BamHI

AATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGGCTGCTAACAAAGCCCGAAAGGAAGCTGAGTT

GG

IVEX-3 Primer

Bpu1102 I

T7 terminator

CTGCTGCCACCGCTGAGCAATAACTAGCATAACCCCTTGGGGCCTCTAAACGGGTCTTGAGGGGTTTTT

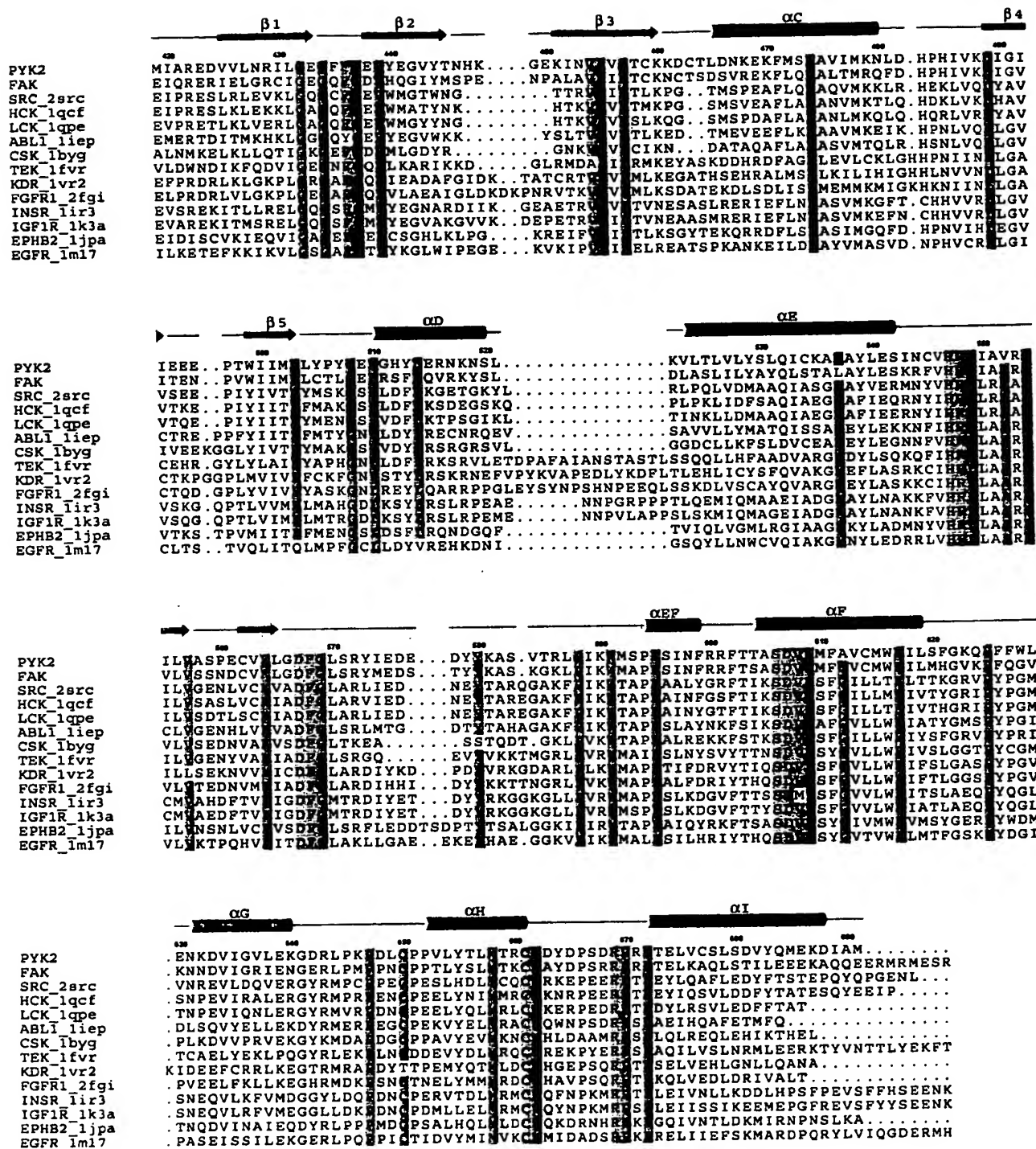
TG

3'-PET Primer

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NEW SHEET

Figure 3



NEW SHEET

Figure 4

4A:

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1  MGSSHHHHHH SSGLVPRGSH MIAREDVVLN RILGEGFFGE VYEGVYTNHK GEKINVAVKI
61  CKKDCTLDNK EKFMSEAVIM KNLDHPHIVK LIGITIEEPT WIIMELYPYG ELGHYLERNK
121  NSLKVLTLVL YSLQICKAMA YLESINCVHR DIAVRNILVA SPECVKLGDF GLSRYIEDED
181  YYKASVTRLP IKWMSPEIN FRRFTTASDV WMFAVCMWEI LSFQKQFFW LENKDVIGVL
241  EKGDRLPKPD LCPPVLYTLM TRCWDYDPSD RPRFTELVCV LSDVYQMEKD IAM

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4B:

PYK2-C1; 5'-TCCACAG CATATG ATTGCCCGTGAAGATGTGGT-3' 33 mer

4C:

PYK2-N2; TGGAGAAGGACATTGCCATG TAG GTCGAC GAGAG (Origin)
5'-CTCTC GTCGAC CTA CATGGCAATGTCCTTCTCCA-3' 34 mer

4D:

TCTAGAAATAATTTTGTTTAACTTTAAGAAGGAGA

TATACCATGGGCAGCAGCCATCATCATCATCACAGCAGCGGCCTGGTGCCGCGCGGCAGCCATATG
attgcc cgtgaagatg
1381 tggctcctgaa tcgtattcctt ggggaaggct tttttgggga ggtctatgaa
ggtgtctaca
1441 caaatcacia aggggagaaa atcaatgtag ctgtcaagac ctgcaagaaa
gactgcactc
1501 tggacaacaa ggagaagttc atgagcgagg cagtgatcat gaagaacctc
gaccaccgc
1561 acatcgtgaa gctgatcggc atcattgaag aggagccac ctggatcatc
atggaattgt
1621 atccctatgg ggagctgggc cactacctgg agcggaacaa gaactccctg
aagggtgtca
1681 cctcgtgct gtactcactg cagatatgca aagccatggc ctacctggag
agcatcaact
1741 gcgtgcacag ggacattgct gtccggaaca tcctgggtggc ctcccctgag
tgtgtgaagc
1801 tgggggactt tggctcttcc cggtacattg aggacgagga ctattacaaa
gcctctgtga
1861 ctgctctccc catcaaatgg atgtccccag agtccattaa cttccgacgc
ttcacgacag
1921 ccagtgcagt ctggatgttc gccgtgtgca tgtgggagat cctgagcttt
gggaagcagc
1981 ccttcttctg gctggagaac aaggatgtca tcgggggtgct ggagaaagga
gaccggctgc
2041 ccaagcctga tctctgtcca ccggctcttt ataccctcat gaccgctgc
tgggactacg
2101 acccagtgaa ccggccccgc ttcaccgagc tgggtgtgcag cctcagtgac
gtttatcaga
2161 tggagaagga cattgcatg
TAGGTCGACTAGAGCCTGCAGTCTCGACCATCATCATCATCATTAATAAAAGGGCG
AATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGGCTGCTAACAAAGCCCCGAAAGGAAGCTGAGTT
GG